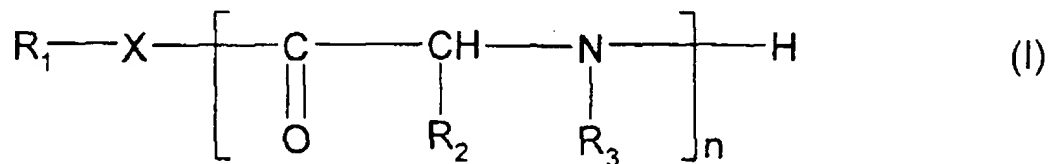


**IN THE CLAIMS:**

1. (Currently amended) A process for treatment of at least one condition chosen from seborrhoea of the skin and scalp, disorders associated with seborrhoea, and disorders associated with microorganisms of the genus *Propionibacterium*, said process comprising:

applying to an area in need of said treatment at least one compound chosen from polyamino acid derivatives of formula (I) and salts thereof,

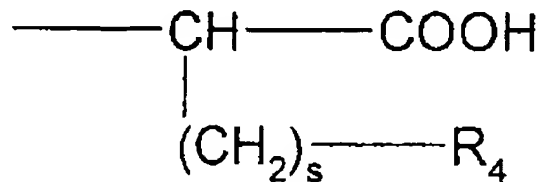


in which:

X is chosen from O, S, NH and NR" wherein R" is chosen from saturated and unsaturated, linear and branched C<sub>1-6</sub> hydrocarbon-based radicals;

R<sub>1</sub> is chosen from:

- (i) hydrogen;
- (ii) linear and branched, saturated and unsaturated C<sub>1-40</sub> hydrocarbon-based radicals,
- (iii) radicals of the formula

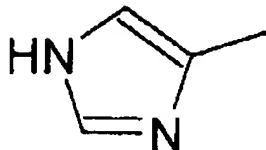


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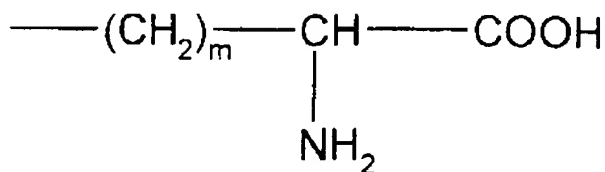
wherein s is a number chosen from 0, 1, 2, 3 and 4; and R<sub>4</sub> is chosen from hydrogen and radicals chosen from -NH<sub>2</sub>, -OH, -SH, -CHOHCH<sub>3</sub>, -CONH<sub>2</sub>, -NH-C(NH<sub>2</sub>)=NH, -C<sub>6</sub>H<sub>5</sub>,

-C<sub>6</sub>H<sub>4</sub>OH and



and;

(iv) radicals of the formula



wherein m is a number chosen from 3, 4 and 5;

R<sub>2</sub> is chosen from hydrogen; saturated and unsaturated, linear and branched C<sub>1-8</sub> hydrocarbon-based radicals; and radicals chosen from -CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>, -CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH, -CH<sub>2</sub>OH,

-CHOHCH<sub>3</sub>, -(CH<sub>2</sub>)<sub>t</sub>-NH<sub>2</sub>, wherein t is a number chosen from 3, 4 and 5;

R<sub>3</sub> is chosen from hydrogen and saturated and unsaturated, linear and branched C<sub>1-6</sub> hydrocarbon-based radicals; and

n is a number greater than 1 chosen such that the number average molecular weight of the polyamino acid derivative ranges from 400 150 to 200 000;

wherein the repeating unit may be identical or different for the same derivative.

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2. (Original) A process according to claim 1, wherein said microorganisms are *Propionibacterium acnes*.

3. (Original) A process according to claim 1, wherein said microorganisms are *Propionibacterium granulosum*.

4. (Original) A process according to claim 1, wherein  $R_1$  is chosen from linear and branched, saturated and unsaturated  $C_{1-40}$  hydrocarbon-based radicals substituted with at least one hydroxyl radical, at least one radical  $-NRR'$ , or at least one hydroxyl radical and at least one radical  $-NRR'$ , wherein R and R', which may be identical or different, are chosen from hydrogen and saturated and unsaturated, linear and branched  $C_{1-6}$  hydrocarbon-based radicals.

5. (Original) A process according to claim 1, wherein  $R_1$  is chosen from linear and branched, saturated and unsaturated  $C_{1-40}$  hydrocarbon-based radicals interrupted with at least one hetero atom chosen from N, O and Si.

6. (Original) A process according to claim 1, wherein said at least one compound is administered in the form of a cosmetic composition.

7. (Original) A process according to claim 6, wherein the treatment comprises the cosmetic treatment of at least one disorder chosen from seborrhoeic dermatitis, acne, greasy skin with a tendency towards acne, and hyperseborrhoea.

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8. (Original) A process according to claim 1, wherein said at least one compound is administered in the form of a pharmaceutical composition.

9. (Original) A process according to claim 8, in which the pharmaceutical composition is administered for treating at least one disorder chosen from seborrhoeic dermatitis, acne, greasy skin with a tendency towards acne and hyperseborrhoea.

10. (Original) A process according to claim 1, wherein in said polyamino acid derivatives of formula (I) and salts thereof, at least one of the following definitions apply:

X is chosen from O, S, NH and NR", wherein R" is chosen from saturated and unsaturated, linear and branched C<sub>1-6</sub> hydrocarbon-based radicals;

R<sub>1</sub> is chosen from linear and branched, saturated and unsaturated C<sub>8-40</sub> hydrocarbon-based radicals,

R<sub>2</sub> is hydrogen;

R<sub>3</sub> is chosen from saturated, linear and branched C<sub>1-6</sub> hydrocarbon-based radicals; and

n is chosen from a number ranging from 2 to 100 and a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 150 to 10,000.

11. (Original) A process according to claim 10, wherein R<sub>3</sub> is chosen from methyl and ethyl radicals.

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12. (Original) A process according to claim 10, wherein  $R_1$  is chosen from linear and branched, saturated and unsaturated  $C_{8-40}$  hydrocarbon-based radicals substituted with at least one hydroxyl radical, at least one radical  $-NRR'$ , or at least one hydroxyl radical and at least one radical  $-NRR'$ , wherein R and  $R'$ , which may be identical or different, are chosen from hydrogen and saturated and unsaturated, linear and branched  $C_{1-6}$  hydrocarbon-based radicals.

13. (Original) A process according to claim 10, wherein  $R_1$  is chosen from linear and branched, saturated and unsaturated  $C_{8-40}$  hydrocarbon-based radicals interrupted with at least one hetero atom chosen from N, O and Si.

14. (Currently amended) A process according to claim 44 13, wherein n is chosen from a number ranging from 2 to 100.

15. (Original) A process according to claim 14, wherein n is a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 150 to 10,000.

16. (Original) A process according to claim 10, wherein:  
X is chosen from O, S, NH and  $NR''$ , wherein  $R''$  is chosen from saturated and unsaturated, linear and branched  $C_{1-6}$  hydrocarbon-based radicals;

$R_1$  is chosen from linear and branched, saturated and unsaturated  $C_{8-40}$  hydrocarbon-based radicals,

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$R_2$  is hydrogen;

$R_3$  is chosen from saturated, linear and branched  $C_{1-6}$  hydrocarbon-based radicals; and

$n$  is chosen from a number ranging from 2 to 100 and a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 150 to 10,000.

17. (Original) A process according to claim 1, wherein in said polyamino acid derivatives of formula (I) and salts thereof, at least one of the following definitions apply:

$X$  is chosen from O, S and NH;

$R_1$  is chosen from linear and branched, saturated  $C_{10-24}$  hydrocarbon-based radicals; and linear and branched unsaturated hydrocarbon-based radicals;

$R_2$  is hydrogen;

$R_3$  is a methyl radical; and

$n$  is chosen from a number ranging from 4 to 50 and a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 300 to 8,000.

18. (Original) A process according to claim 17, wherein  $n$  is chosen from a number ranging from 4 to 50.

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19. (Original) A process according to claim 17, wherein n is a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 300 to 8,000.

20. (Original) A process according to claim 17, wherein X is NH.

21. (Original) A process according to claim 17, wherein R<sub>1</sub> is chosen from linear and branched, saturated C<sub>10-24</sub> hydrocarbon-based radicals substituted with at least one hydroxyl radical.

22. (Original) A process according to claim 21, wherein said linear and branched, saturated C<sub>10-24</sub> hydrocarbon-based radicals are substituted with 1, 2, 3, or 4 hydroxyl radicals.

23. (Original) A process according to claim 17, wherein R<sub>1</sub> is chosen from linear and branched unsaturated hydrocarbon-based radicals substituted with at least one hydroxyl radical.

24. (Original) A process according to claim 1, wherein:

X is chosen from O, S and NH;

R<sub>1</sub> is chosen from linear and branched, saturated C<sub>10-24</sub> hydrocarbon-based radicals; and linear and branched unsaturated hydrocarbon-based radicals;

R<sub>2</sub> is hydrogen;

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$R_3$  is a methyl radical; and

n is chosen from a number ranging from 4 to 50 and a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 300 to 8,000.

25. (Original) A process according to claim 1, wherein said at least one compound is present in said composition in an amount ranging from 0.001% to 30% by weight, relative to the total weight of the composition.

26. (Original) A process according to claim 25, wherein said at least one compound is present in said composition in an amount ranging from 0.01% to 15% by weight, relative to the total weight of the composition.

27. (Original) A process according to claim 26, wherein said at least one compound is present in said composition in an amount ranging from 0.5% to 5% by weight, relative to the total weight of the composition.

28. (Original) A process according to claim 10, wherein said at least one compound is applied in the form of a composition chosen from a cosmetic composition and a pharmaceutical composition.

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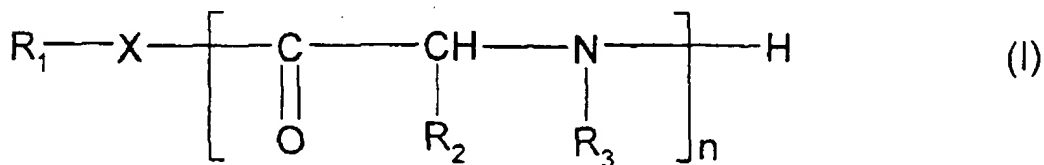


29. (Original) A process according to claim 17, wherein said at least one compound is applied in the form of a composition chosen from a cosmetic composition and a pharmaceutical composition.

30. (Original) A process according to claim 1, wherein said at least one compound is applied to at least one area chosen from the skin and the scalp.

31. (Withdrawn) A process for the manufacture of a composition for treatment of at least one condition chosen from seborrhoea of the skin and scalp, disorders associated with seborrhoea, and disorders associated with microorganisms of the genus *Propionibacterium*, said process comprising:

including in said composition at least one poly amino acid derivative chosen from formula (I) and salts thereof ,



in which:

X is chosen from O, S, NH and NR" with R" is chosen from saturated and unsaturated, linear and branched C<sub>1-6</sub> hydrocarbon-based radicals;

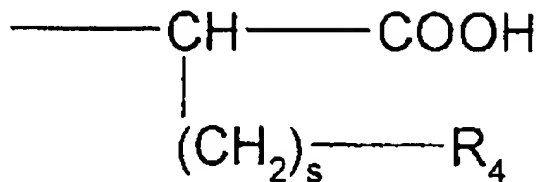
R<sub>1</sub> is chosen from:

- (i) hydrogen;
- (ii) linear and branched, saturated and unsaturated C<sub>1-40</sub> hydrocarbon-based radicals,

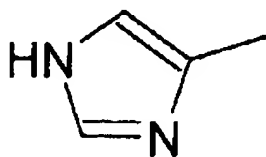
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(iii) radicals of the formula

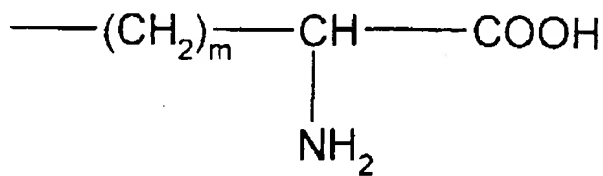


wherein s is a number chosen from 0, 1, 2, 3 and 4; and R<sub>4</sub> is chosen from hydrogen and radicals chosen from -NH<sub>2</sub>, -OH, -SH, -CHOHCH<sub>3</sub>, -CONH<sub>2</sub>, -NH-C(NH<sub>2</sub>)=NH, -C<sub>6</sub>H<sub>5</sub>, -C<sub>6</sub>H<sub>4</sub>OH and



and;

(iv) radicals of the formula



wherein m is a number chosen from 3, 4 and 5;

- R<sub>2</sub> is chosen from hydrogen; saturated and unsaturated, linear and branched C<sub>1-8</sub> hydrocarbon-based radicals; and radicals chosen from -CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>, -CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH, -CH<sub>2</sub>OH, -CHOHCH<sub>3</sub>, -(CH<sub>2</sub>)<sub>t</sub>-NH<sub>2</sub> wherein t is a number chosen from 3, 4 and 5;

R<sub>3</sub> is chosen from hydrogen and saturated and unsaturated, linear and branched C<sub>1-6</sub> hydrocarbon-based radicals; and

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n is a number greater than 1 chosen such that the number average molecular weight of the polyamino acid derivative ranges from 100 to 200 000;  
wherein the repeating unit may be identical or different for the same derivative.

32. (Withdrawn) A process according to claim 31, wherein said microorganisms are *Propionibacterium acnes*.

33. (Withdrawn) A process according to claim 31, wherein said microorganisms are *Propionibacterium granulosum*.

34. (Withdrawn) A process according to claim 31, wherein R<sub>1</sub> is chosen from linear and branched, saturated and unsaturated C<sub>1-40</sub> hydrocarbon-based radicals substituted with at least one hydroxyl radical, at least one radical -NRR', or at least one hydroxyl radical and at least one radical -NRR', wherein R and R', which may be identical or different, are chosen from hydrogen and saturated and unsaturated, linear and branched C<sub>1-6</sub> hydrocarbon-based radicals.

35. (Withdrawn) A process according to claim 31, wherein R<sub>1</sub> is chosen from linear and branched, saturated and unsaturated C<sub>1-40</sub> hydrocarbon-based radicals interrupted with at least one hetero atom chosen from N, O and Si.

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36. (Withdrawn) A process according to claim 31, wherein in said polyamino acid derivatives of formula (I) and salts thereof, at least one of the following definitions apply:

X is chosen from O, S, NH and NR", wherein R" is chosen from saturated and unsaturated, linear and branched C<sub>1-6</sub> hydrocarbon-based radicals;

R<sub>1</sub> is chosen from linear and branched, saturated and unsaturated C<sub>8-40</sub> hydrocarbon-based radicals,

R<sub>2</sub> is hydrogen;

R<sub>3</sub> is chosen from saturated, linear and branched C<sub>1-6</sub> hydrocarbon-based radicals; and

n is chosen from a number ranging from 2 to 100 and a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 150 to 10,000.

37. (Withdrawn) A process according to claim 36, wherein R<sub>3</sub> is chosen from methyl and ethyl radicals.

38. (Withdrawn) A process according to claim 36, wherein R<sub>1</sub> is chosen from linear and branched, saturated and unsaturated C<sub>8-40</sub> hydrocarbon-based radicals substituted with at least one hydroxyl radical, at least one radical -NRR', or at least one hydroxyl radical and at least one radical -NRR', wherein R and R', which may be identical or different, are chosen from hydrogen and saturated and unsaturated, linear and branched C<sub>1-6</sub> hydrocarbon-based radicals.

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39. (Withdrawn) A process according to claim 36, wherein  $R_1$  is chosen from linear and branched, saturated and unsaturated  $C_{8-40}$  hydrocarbon-based radicals interrupted with at least one hetero atom chosen from N, O and Si.

40. (Withdrawn) A process according to claim 36, wherein  $n$  is chosen from a number ranging from 2 to 100.

41. (Withdrawn) A process according to claim 36, wherein  $n$  is a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 150 to 10,000.

42. (Withdrawn) A process according to claim 36, wherein:

$X$  is chosen from O, S, NH and  $NR''$ , wherein  $R''$  is chosen from saturated and unsaturated, linear and branched  $C_{1-6}$  hydrocarbon-based radicals;

$R_1$  is chosen from linear and branched, saturated and unsaturated  $C_{8-40}$  hydrocarbon-based radicals,

$R_2$  is hydrogen;

$R_3$  is chosen from saturated, linear and branched  $C_{1-6}$  hydrocarbon-based radicals; and

$n$  is chosen from a number ranging from 2 to 100 and a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 150 to 10,000.

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43. (Withdrawn) A process according to claim 31, wherein in said polyamino acid derivatives of formula (I) and salts thereof, at least one of the following definitions apply:

X is chosen from O, S and NH;

R<sub>1</sub> is chosen from linear and branched, saturated C<sub>10-24</sub> hydrocarbon-based radicals; and linear and branched unsaturated hydrocarbon-based radicals;

R<sub>2</sub> is hydrogen;

R<sub>3</sub> is a methyl radical; and

n is chosen from a number ranging from 4 to 50 and a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 300 to 8,000.

44. (Withdrawn) A process according to claim 43, wherein n is chosen from a number ranging from 4 to 50.

45. (Withdrawn) A process according to claim 43, wherein n is a number chosen such that the number average molecular weight of said polyamino acid derivative ranges from 300 to 8,000.

46. (Withdrawn) A process according to claim 43, wherein X is NH.

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47. (Withdrawn) A process according to claim 43, wherein  $R_1$  is chosen from linear and branched, saturated  $C_{10-24}$  hydrocarbon-based radicals substituted with at least one hydroxyl radical.

48. (Withdrawn) A process according to claim 47, wherein said linear and branched, saturated  $C_{10-24}$  hydrocarbon-based radicals are substituted with 1, 2, 3, or 4 hydroxyl radicals.

49. (Withdrawn) A process according to claim 43, wherein  $R_1$  is chosen from linear and branched unsaturated hydrocarbon-based radicals substituted with at least one hydroxyl radical.

50. (Withdrawn) A process according to claim 31, wherein said at least one polyamino acid derivative is present in said composition in an amount ranging from 0.001% to 30% by weight, relative to the total weight of the composition.

51. (Withdrawn) A process according to claim 50, wherein said at least one polyamino acid derivative is present in said composition in an amount ranging from 0.01% to 15% by weight, relative to the total weight of the composition.

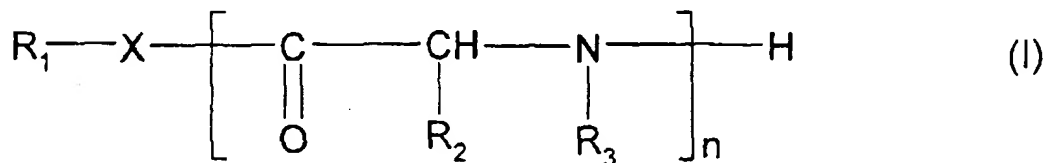
52. (Withdrawn) A process according to claim 51, wherein said at least one polyamino acid derivative is present in said composition in an amount ranging from 0.5% to 5% by weight, relative to the total weight of the composition.

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53. (Withdrawn) A process according to claim 31, wherein said composition is a pharmaceutical composition.

54. (Withdrawn) An anti-seborrhoeic composition comprising,  
a physiologically acceptable medium; and  
an effective amount of at least one polyamino acid derivative of formula (I) and salts thereof,

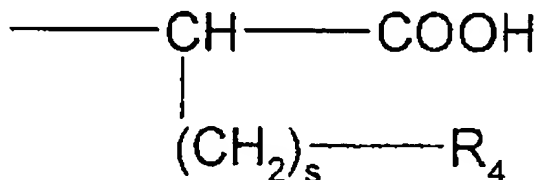


in which:

X is chosen from O, S, NH and NR" wherein R" is chosen from saturated and unsaturated, linear and branched C<sub>1-6</sub> hydrocarbon-based radicals;

R<sub>1</sub> is chosen from:

- (i) hydrogen;
- (ii) linear and branched, saturated and unsaturated C<sub>1-40</sub> hydrocarbon-based radicals,
- (iii) radicals of the formula

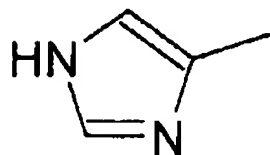


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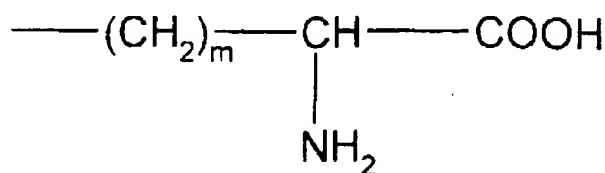


wherein s is a number chosen from 0, 1, 2, 3 and 4; and R<sub>4</sub> is chosen from hydrogen and radicals chosen from -NH<sub>2</sub>, -OH, -SH, -CHOHCH<sub>3</sub>, -CONH<sub>2</sub>, -NH-C(NH<sub>2</sub>)=NH, -C<sub>6</sub>H<sub>5</sub>, -C<sub>6</sub>H<sub>4</sub>OH and



and;

(iv) radicals of the formula



wherein m is a number chosen from 3, 4 and 5;

R<sub>2</sub> is chosen from hydrogen; saturated and unsaturated, linear and branched C<sub>1-8</sub> hydrocarbon-based radicals; and radicals chosen from -CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>, -CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH, -CH<sub>2</sub>OH, -CHOHCH<sub>3</sub>, -(CH<sub>2</sub>)<sub>t</sub>-NH<sub>2</sub> wherein t is a number chosen from 3, 4 and 5;

R<sub>3</sub> is chosen from hydrogen and saturated and unsaturated, linear and branched C<sub>1-6</sub> hydrocarbon-based radicals; and

n is a number greater than 1 chosen such that the number average molecular weight of the polyamino acid derivative ranges from 100 to 200 000;

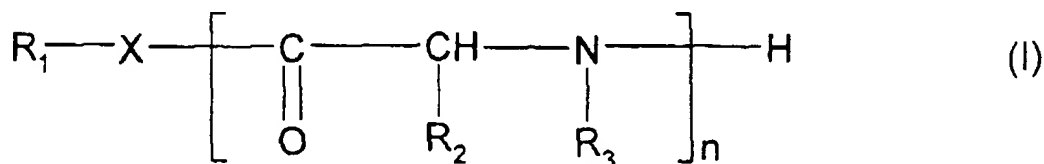
wherein the repeating unit may be identical or different for the same derivative.

55. (Withdrawn) An anti-seborrhoeic composition according to claim 54, wherein said composition is an anti-acne composition.

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56. (Withdrawn) An anti-bacterial composition comprising,  
a physiologically acceptable medium; and  
an effective amount of at least one polyamino acid derivative of formula (I) and  
salts thereof for treating bacteria,

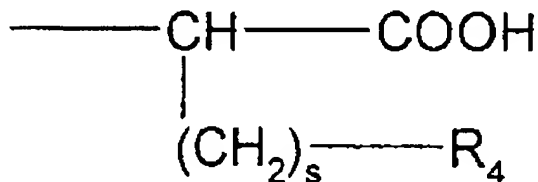


in which:

X is chosen from O, S, NH and NR" wherein R" is chosen from saturated and  
unsaturated, linear and branched C<sub>1-6</sub> hydrocarbon-based radicals;

R<sub>1</sub> is chosen from:

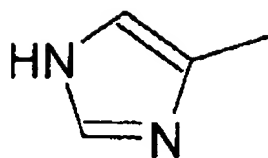
- (i) hydrogen;
- (ii) linear and branched, saturated and unsaturated C<sub>1-40</sub> hydrocarbon-based  
radicals,
- (iii) radicals of the formula



wherein s is a number chosen from 0, 1, 2, 3 and 4; and R<sub>4</sub> is chosen from hydrogen  
and radicals chosen from -NH<sub>2</sub>, -OH, -SH, -CHOHCH<sub>3</sub>, -CONH<sub>2</sub>, -NH-C(NH<sub>2</sub>)=NH, -  
C<sub>6</sub>H<sub>5</sub>, -C<sub>6</sub>H<sub>4</sub>OH and

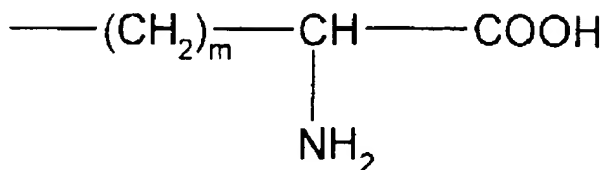
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and;

(iv) radicals of the formula



wherein m is a number chosen from 3, 4 and 5;

R<sub>2</sub> is chosen from hydrogen; saturated and unsaturated, linear and branched C<sub>1-8</sub> hydrocarbon-based radicals; and radicals chosen from -CH<sub>2</sub>C<sub>6</sub>H<sub>5</sub>, -CH<sub>2</sub>C<sub>6</sub>H<sub>4</sub>OH, -CH<sub>2</sub>OH, -CHOHCH<sub>3</sub>, -(CH<sub>2</sub>)<sub>t</sub>-NH<sub>2</sub> wherein t is a number chosen from 3, 4 and 5;

R<sub>3</sub> is chosen from hydrogen and saturated and unsaturated, linear and branched C<sub>1-6</sub> hydrocarbon-based radicals; and

n is a number greater than 1 chosen such that the number average molecular weight of the polyamino acid derivative ranges from 100 to 200 000;


wherein the repeating unit may be identical or different for the same derivative.

57. (Withdrawn) An anti-bacterial composition according to claim 56, wherein said composition is an anti-acne composition.

58. (Withdrawn) An antibacterial composition according to claim 55, wherein the bacteria is of the genus *Propionibacterium*.

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59. (Withdrawn) An antibacterial composition according to claim 58, wherein the bacteria is at least one of *Propionibacterium acnes* and *Propionibacterium granulosum*.

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